

INTEGRATED SELF DIAGNOSTICS FOR LOUDSPEAKER SYSTEMS

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ABSTRACT OF THE DISCLOSURE

10 The present invention relates to a self-diagnostic circuit for speaker systems
that allows a speaker system to generate its own test signals, e.g., tones, appropriate
for the transducer(s) in the speaker system. The test signals are routed to the analog
circuits in the speaker system. The test signals are also routed to the transducers, so
that an operator can evaluate speaker output tones. In one embodiment, the test
15 signals are also routed to an analog activity sensor that senses activity in the speaker
analog circuit paths and sends a status indicator to be displayed to the operator. In a
first embodiment, the self-diagnostic circuit is part of a stand-alone speaker system,
such as a home theater sound system. In a second embodiment, the self-diagnostic
circuit is included in a speaker system that is included in a computer system.